# Engineering Interpretations

## Construction Material and Excavating

Soils are rated as sources for road fill, topsoil, sand, and gravel. Suitability ratings of good, fair, or poor are given for soils used as a source of road fill and topsoil. Ratings of probable and improbable are given for sand and gravel. A rating of probable means that on the basis of the available evidence, the source material is likely to be in or below the soil. A rating of improbable means that the source material is unlikely to be in or below the soil. The ratings for sand and gravel do not consider the quality of the source material because quality depends on how the source material is to be used.

## Road Fill

Road fill consists of soil material that is excavated from its original position and used in road embankments elsewhere. The evaluations for road fill are for low embankments that generally are less than 6 feet in height and are less exacting in design than high embankments such as those along superhighways. The rating is given for the whole soil, from the surface to a depth of about 5 feet, based on the assumption that soil horizons will be mixed in loading, dumping, and spreading. Soils are rated as to the amount of material available for excavation, the ease of excavation, and how well the material performs after it is in place.

## Sand

Sand as a construction material is usually defined as particles ranging in size from 0.074 mm (sieve #200) to 4.75 mm (sieve #4) in diameter. Sand is used in great quantities in many kinds of construction. Specifications for each purpose vary widely. The intent of this rating is to show only the probability of finding material in suitable quantity. The suitability of the sand for specific purposes is not evaluated. If the lowest layer of the soil contains sand, the soil is rated as a probable source regardless of thickness. The assumption is that the sand layer below the depth of observation exceeds the minimum thickness.

## Gravel

Gravel as a construction material is defined as particles ranging in size from 4.76 mm (sieve #4) to 76 mm (3 inches) in diameter.

Gravel is used in great quantities in many kinds of construction. Specifications for each purpose vary widely. The intent of this rating is to show only the probability of finding material in suitable quantity. The suitability of the gravel for specific purposes is not evaluated. If the lowest layer of the soil contains gravel, the soil is rated as a probable source regardless of thickness. The assumption is that the gravel layer below the depth of observation exceeds the minimum thickness.

## Topsoil

The term "topsoil" has several meanings. As used here, the term describes soil material used to cover an area so as to improve soil conditions for establishment and maintenance of adapted vegetation. Generally, the upper part of the soil, which is richest in organic matter, is most desirable; however, material excavated from deeper layers is also used. In this rating, the upper 40 inches of soil material is evaluated for use as topsoil. In the

borrow area, the material below 40 inches is evaluated for its suitability for plant growth after the upper 40 inches is removed. The soil properties that are used to rate the soil as topsoil are those that affect plant growth, the ease of excavation, loading, and spreading, and those that affect the reclamation of the borrow area.

This subsection includes:

• (a) Construction Materials and Excavating

## Construction Materials and Excavating

Map symbol and soil name	Source for roadfi	11	Source for sand	d	Source for grav 	el	Source for topsoi 	1	Shallow excavati 	ons
	Rating class and   limiting features	Value	   Rating class and   limiting features 	Value	   Rating class and   limiting features 	Value	   Rating class and   limiting features 	Value   	Rating class and   limiting features 	Value
70022: Tonti	(moderately limited)	0.48	 	11.00	  Limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	1.00    0.75	  Very limited  ~small stones   (very limited)  ~dense layer <20"   (very limited)  ~area reclaim   (very limited)	11.00	  Very limited  ~dense layer <20"   (very limited)  ~wetness   (very limited)  ~cutbanks cave   (very limited)	        1.00    1.00    1.00
70025: Branson	. 4	11.00	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	11.00	  Very limited  ~excess fines   (bottom layer)  ~excess fines   (thickest layer)	11.00	(slightly limited)	0.12	  Slightly limited  ~cutbanks cave   (slightly limited)  ~too clayey   (slightly limited)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Splitlimb	<pre> ~low strength   (very limited)  ~wetness   (limited)</pre>	1.00    0.71    0.45	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer) 	11.00	  Very limited  ~excess fines   (bottom layer)  ~excess fines   (thickest layer) 	11.00	(limited)  ~too acid   (moderately limited)	0.71    0.48    0.33	  Very limited  ~wetness   (very limited)  ~cutbanks cave   (slightly limited) 	11.00
70026: Tonti	(moderately limited)	0.48	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer) 	11.00	  Possible source  ~excess fines   (bottom layer)  ~possible source   (thickest layer) 	0.75    0.50	(very limited)  ~dense layer <20"   (very limited)	11.00	  Very limited  ~dense layer <20"   (very limited)  ~wetness   (very limited)  ~cutbanks cave   (very limited)	11.00

## Construction Materials and Excavating

Map symbol and soil name	Source for roadf:	ill	Source for sand	d	Source for grave	el	Source for topsoi	1	Shallow excavation	ons
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	   Rating class and   limiting features 	Value   	Rating class and limiting features	Value
71250: Britwater	  Not limited           	i	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer) 	İ	  Limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	11.00	(very limited)  ~area reclaim   (very limited)	1.00    1.00    0.55	 	1 1.00
73000: Pomme	  Not limited           		  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	11.00	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	1.00    1.00 	(limited)	0.88 	  Very limited  ~cutbanks cave   (very limited)  ~too clayey   (very limited)	11.00
73013: Lowassie	 	11.00	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer) 	11.00	  Very limited  ~excess fines   (bottom layer)  ~excess fines   (thickest layer) 	11.00	(very limited)  ~too clayey   (very limited)	1.00    1.00    0.54	  Very limited  ~ponded (wetness)   (very limited)  ~wetness   (very limited)  ~too clayey   (moderately limited)	      1.00    1.00    0.60
73017: Bendavis	  Very limited  ~depth to bedrock   (very limited)  ~slope   (very limited)  ~wetness   (slightly limited)	11.00	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer) 	1	  Limited  ~excess fines   (bottom layer)  ~excess fines   (thickest layer) 	0.75    0.75 	(very limited)	1.00    1.00    0.70	  Very limited  ~hard bedrock <40"   (very limited)  ~slope   (very limited)  ~cutbanks cave   (very limited)	  1.00    1.00    1.00

## Construction Materials and Excavating

Map symbol and soil name	Source for roadfi	11	Source for sand	d	Source for grav	el	Source for topsoi	1	Shallow excavati 	ons
	Rating class and I limiting features	Value	Rating class and limiting features	Value   	Rating class and I limiting features	Value   _	Rating class and limiting features	Value   	Rating class and   limiting features 	Value
73017: (cont)			 		 	1	 	1	 	
Poynor	. 4		Very limited  ~excess fines   (thickest layer)		Possible source  ~excess fines   (bottom layer)		Very limited  ~slope   (very limited)		Very limited  ~slope   (very limited)	11.00
	(limited)	0.92    0.14	~excess fines   (bottom layer)   	11.00	~possible source   (thickest layer)   	i	<pre> ~small stones   (very limited)  ~too acid   (moderately limited)</pre>	0.36	~cutbanks cave   (very limited)  ~too clayey   (very limited)	1.00    1.00
73023:		 	 	1	 	l	! 	i	 	
Mano	~low strength   (very limited)	11.00	Very limited  ~excess fines   (thickest layer)	İ	Possible source  ~excess fines   (bottom layer)	11.00	Very limited  ~small stones   (very limited)	11.00	Very limited  ~cutbanks cave   (very limited)	11.00
	<pre> ~shrink-swell   (moderately limited)  ~wetness   (slightly limited)</pre>		~excess fines   (bottom layer)   	1.00     	~possible source   (thickest layer)   	0.50     	<pre> ~too acid   (slightly limited)  ~wetness   (slightly limited)</pre>	0.12	~too clayey   (very limited)  ~wetness   (very limited)	1.00    1.00
Ocie	· · · · · · · · · · · · · · · · · · ·		  Very limited		  Very limited		  Very limited		  Very limited	
	~low strength   (very limited)		~excess fines   (thickest layer)	1.00 	~excess fines   (bottom layer)	1.00	<pre> ~too clayey   (very limited)</pre>		<pre> ~too clayey   (very limited)</pre>	1.00
	~shrink-swell   (limited)	0.71 	~excess fines   (bottom layer)	1.00 	~excess fines   (thickest layer)	11.00	~small stones   (limited)		~cutbanks cave   (very limited)	11.00
	~depth to bedrock   (slightly limited)	0.25		İ			~wetness   (slightly limited)		~wetness   (very limited)	11.00
73024:		 	 	 	]		 	I	 	
Mano	. 4		Very limited  ~excess fines   (thickest layer)		Possible source  ~excess fines   (bottom layer)		Very limited  ~small stones   (very limited)	11.00	Very limited  ~cutbanks cave   (very limited)	11.00
	~shrink-swell		~excess fines	1.00	~possible source	0.50	~slope	0.63	~too clayey	11.00
	<pre>  (moderately limited)  ~wetness   (slightly limited)</pre>	0.12	(bottom layer)   	 	(thickest layer)		<pre>  (limited)  ~too acid   (moderately limited)</pre>	0.48	(very limited)  ~wetness   (very limited)	11.00

## Construction Materials and Excavating

Map symbol and soil name	Source for roadfi	11	Source for sand	d	Source for grav	el	Source for topsoi	1	Shallow excavation	ons
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and   limiting features	Value   	Rating class and limiting features	Value
73024: (cont)		 	 		 		 	1	 	1
Ocie	- Very limited	İ	Very limited	İ	Very limited	i	Very limited	İ	Very limited	İ
	~low strength	1.00	~excess fines	11.00	~excess fines	1.00	~too clayey	1.00	~too clayey	1.00
	(very limited)		(thickest layer)		(bottom layer)		(very limited)		(very limited)	
	•	0.71	~excess fines	1.00	~excess fines	1.00	~small stones	0.88	~cutbanks cave	1.00
	(limited)		(bottom layer)		(thickest layer)		(limited)		(very limited)	
		0.25	1	1		!	~slope	10.63	~wetness	1.00
	(slightly limited)	1					(limited)		(very limited)	
73051:		1	 	I	 	l	 	I	 	I
Winnipeg	- Verv limited	i	  Verv limited	i	  Very limited	İ	  Moderately limited	i	  Moderately limited	i
1 - 5	. 4		~excess fines		~excess fines				~too clayey	0.54
	(very limited)	İ	(thickest layer)	İ	(thickest layer)	j	(moderately limited)	İ	(moderately limited)	)
	~shrink-swell	0.33	~excess fines	11.00	~excess fines	11.00	1		~cutbanks cave	10.29
	(moderately limited)		(bottom layer)	1	(bottom layer)		I		(slightly limited)	
73054:										
Viburnum	 - T.imited	1	  Very limited	I	  Limited	l	  Very limited	1	  Very limited	
VIDUITIUM			~excess fines		~excess fines		~too clayey		~wetness	11.00
	(limited)		(thickest layer)		(thickest layer)		(very limited)	1	(very limited)	
			~excess fines		~excess fines	0.87	~area reclaim	11.00	~cutbanks cave	11.00
	(moderately limited)	1	(bottom layer)	1	(bottom layer)		(very limited)		(very limited)	1
	I	1	I	1	I		~small stones	1.00	~too clayey	10.79
		1	1	1	1		(very limited)		(limited)	1
72062		1								
73063: Bendavis	 - Very limited	1	  Verv limited	1	  Verv limited	l	  Verv limited	1	  Verv limited	l
DCIIUavi3	. 4		~excess fines		~excess fines		~small stones		~hard bedrock <40"	11.00
	(very limited)		(thickest layer)		(bottom layer)		(very limited)		(very limited)	
			~excess fines		~excess fines		~depth to bedrock		~cutbanks cave	11.00
	(slightly limited)	1	(bottom layer)	1	(thickest layer)		(limited)		(very limited)	1
	1		I	1	I		~too acid	0.30	~wetness	11.00
	1		1				(slightly limited)		(very limited)	

## Construction Materials and Excavating

Map symbol and soil name	Source for roadf:	ill	Source for sand	İ	Source for grave	el	Source for topsoi	1	Shallow excavation	ons
	Rating class and   limiting features	Value	Rating class and   limiting features	Value	Rating class and   limiting features	Value	Rating class and   limiting features	Value 	Rating class and   limiting features	Value
73063: (cont) Poynor	  Very limited  ~low strength   (very limited)  ~shrink-swell   (slightly limited)	1.00    0.14	    Not Rated  Not Rated    ~excess fines   (thickest layer) 	i I	  Possible source  ~excess fines   (bottom layer)  ~possible source   (thickest layer)	11.00	<pre>(very limited)  ~too acid   (moderately limited)</pre>	1.00	  Very limited  ~cutbanks cave   (very limited)  ~too clayey   (limited)	1 1.00
73068: Tick	  Very limited  ~low strength   (very limited)  ~shrink-swell   (slightly limited)	11.00	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	11.00	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	1.00	<pre>(very limited)  ~slope   (limited)</pre>	1.00    0.63 	  Very limited  ~too clayey   (very limited)  ~slope   (limited)  ~cutbanks cave   (slightly limited)	11.00
	  Very limited  ~low strength   (very limited)  ~slope   (limited)  ~shrink-swell   (slightly limited)	1.00    0.92	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer) 	11.00	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer) 	1.00    1.00 	(very limited)  ~too clayey   (very limited)	1.00    1.00    0.42	  Very limited  ~slope   (very limited)  ~too clayey   (very limited)  ~cutbanks cave   (slightly limited)	11.00
73073: Scholten	  Limited  ~wetness   (limited)  ~shrink-swell   (slightly limited) 	0.82 	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer) 	11.00	  Limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer) 	11.00	(very limited)  ~area reclaim   (very limited)	1.00    1.00    1.00	  Very limited  ~wetness   (very limited)  ~cutbanks cave   (very limited)  ~dense layer   (limited)	  1.00    1.00 

## Construction Materials and Excavating

Map symbol and soil name	Source for roadfi 	11	Source for sand	Ĺ	Source for grave	el	Source for topsoi 	1	Shallow excavation	ons
	Rating class and limiting features	Value   	Rating class and limiting features	Value	Rating class and limiting features	Value	   Rating class and   limiting features 	Value   	Rating class and   limiting features	Value   
73073: (cont) Poynor	~low strength   (very limited)	11.00	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	11.00	  Limited  ~excess fines   (bottom layer)  ~excess fines   (thickest layer)	1.00    0.75 	<pre>(very limited)  ~slope   (limited)</pre>	1.00    0.63 	  Very limited  ~cutbanks cave   (very limited)  ~too clayey   (very limited)  ~slope   (limited)	11.00
73076: Mano	<pre> ~low strength   (very limited)  ~slope   (limited)</pre>	1.00    0.92    0.50	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	11.00	  Possible source  ~excess fines   (bottom layer)  ~possible source   (thickest layer)	1.00    0.50	<pre>(very limited)  ~small stones   (very limited)</pre>	1.00    1.00    0.48	  Very limited  ~slope   (very limited)  ~cutbanks cave   (very limited)  ~too clayey   (very limited)	  1.00    1.00 
Ocie	<pre> ~low strength   (very limited)  ~slope   (limited)</pre>	11.00	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer) 	11.00	  Very limited  ~excess fines   (bottom layer)  ~excess fines   (thickest layer) 	1.00    1.00	(very limited)  ~too clayey   (very limited)	1.00    1.00	  Very limited  ~too clayey   (very limited)  ~slope   (very limited)  ~cutbanks cave   (very limited)	  1.00    1.00    1.00
73077: Eudy	~low strength   (very limited)  ~depth to bedrock   (very limited)	1.00    1.00	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer) 	11.00	  Very limited  ~excess fines   (bottom layer)  ~excess fines   (thickest layer) 	1.00    1.00 	(very limited)  ~wetness   (limited)	1.00    0.98    0.88	  Very limited  ~hard bedrock <40"   (very limited)  ~wetness   (very limited)  ~cutbanks cave   (very limited)	1.00

## Construction Materials and Excavating

Map symbol and soil name	Source for roadfi	11	Source for sand	İ	Source for grave	el	Source for topsoi: 	1	Shallow excavati	ons
	Rating class and   limiting features	Value	Rating class and   limiting features	Value	Rating class and   limiting features	Value	   Rating class and   limiting features 	Value	Rating class and   limiting features	Value
73080:		;   	 	- <u> </u>   	 	- i i	 	i I		
AlredBardley	~low strength   (very limited)  ~slope   (very limited)  ~shrink-swell   (slightly limited)  - Very limited  ~low strength   (very limited)  ~depth to bedrock   (very limited)	1.00    1.00    0.15      1.00	  -  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	1.00    1.00            1.00	Possible source  ~excess fines   (bottom layer)  ~possible source   (thickest layer)        Very limited  ~excess fines   (bottom layer)  ~excess fines   (thickest layer)	1.00    0.42          1.00    1.00	(very limited)  ~small stones   (very limited)  ~large surface stones   (moderately limited)    Very limited  ~depth to bedrock   (very limited)  ~slope   (very limited)	1.00    1.00    0.60      1.00 	Very limited  ~slope   (very limited)  ~too clayey   (very limited)  ~cutbanks cave   (slightly limited)    Very limited  ~hard bedrock <40"   (very limited)  ~slope   (very limited)  ~too clayey   (very limited)	  1.00    1.00    0.29    1.00    1.00
Rock outcrop	  Not rated 	 	  Not rated 		  Not rated 	 	  Not rated 	 	  Not rated 	
73176: Bendavis	~depth to bedrock   (very limited)	11.00	 	i	 	  0.75 	(very limited)  ~small stones   (very limited)	1.00    1.00	 	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Poynor	~low strength   (very limited)	1.00    0.32	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	11.00	  Limited  ~excess fines   (bottom layer)  ~excess fines   (thickest layer)	11.00	(very limited)  ~slope   (limited)	1.00    0.63	  Very limited  -too clayey   (very limited)  -slope   (limited)  -cutbanks cave	  1.00    0.63    0.29

## Construction Materials and Excavating

Map symbol and soil name	Source for roadfi	11	Source for sand	i	Source for grave	el	Source for topso:	il	Shallow excavati	ons
	Rating class and   limiting features	Value   	Rating class and limiting features	Value   	Rating class and limiting features	Value   	Rating class and limiting features	Value   	Rating class and limiting features	Value
73197: Viburnum	~wetness   (limited)	0.86    0.45	      Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	11.00	  -  -  -excess fines   (thickest layer)  -excess fines   (bottom layer)  -	11.00	 	1.00    1.00	 	      1.00    1.00    0.79
	(slightly limited)	0.22	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	11.00	  Very limited  ~excess fines   (bottom layer)  ~excess fines   (thickest layer)	11.00	  Slightly limited  ~small stones   (slightly limited)  ~area reclaim   (slightly limited)	0.12	  Very limited  ~cutbanks cave   (very limited)  ~too clayey   (very limited)	    1.00    1.00
Viraton	(moderately limited)	0.48	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer) 	İ	  Possible source  ~excess fines   (bottom layer)  ~possible source   (thickest layer)	1.00    0.25 	  Very limited  ~small stones   (very limited)  ~dense layer <20"   (very limited)  ~too acid   (limited)	1.00    1.00	  Very limited  ~dense layer <20"   (very limited)  ~wetness   (very limited)  ~cutbanks cave   (very limited)	  1.00    1.00    1.00
73199: Moko	~depth to bedrock   (very limited)  ~large stones   (limited)	1.00    0.86	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)  ~small stones   (bottom layer)	1.00    1.00	  Very limited  ~small stones   (bottom layer)  ~excess fines   (thickest layer)  ~possible source   (bottom layer)	11.00	  Very limited  ~depth to bedrock   (very limited)  ~small stones   (very limited)  ~large stones >25%   (very limited)	1.00    1.00	  Very limited  ~hard bedrock <40"   (very limited)  ~large stones   (limited)  ~cutbanks cave   (slightly limited)	   1.00   0.86   0.29
Rock outcrop	  Not rated   	     	  Not rated   	     	  Not rated   		  Not rated   	 	  Not rated   	 

## Construction Materials and Excavating

Map symbol and soil name	Source for roadfi	11	Source for sand	1	Source for grave	el	Source for topsoi 	1	Shallow excavati 	ons
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
73221:	 	   	 	   	 		 	   	 	
Poynor	· · Very limited	İ	Very limited	i	Possible source	i	Very limited	İ	Very limited	į
-	~low strength	1.00	~excess fines	11.00	~excess fines	11.00	~small stones	1.00	~cutbanks cave	11.00
	(very limited)	İ	(thickest layer)	İ	(bottom layer)	į	(very limited)	İ	(very limited)	İ
	~shrink-swell	0.14	~excess fines	1.00	~possible source	10.50	~slope	1.00	~too clayey	1.00
	(slightly limited)		(bottom layer)		(thickest layer)		(very limited)		(very limited)	
	~slope	0.08	I		1		~too acid	0.36	~slope	1.00
	(slightly limited)		I	1	I		(moderately limited)		(very limited)	
50000	!	1	!	1	!		<u> </u>	1	!	ļ.
73222:	1		1	!		!			1	
Splitlimb	· ±		Very limited		Very limited		Limited		Very limited	
		11.00	~excess fines	11.00	~excess fines				~ponded (wetness)	1.00
	(very limited)	10 76	(thickest layer)	1 00	(bottom layer)		(limited)		(very limited)	
			~excess fines	11.00	~excess fines	,	~too acid		~wetness	1.00
	(limited)		(bottom layer)		(thickest layer)		(moderately limited)		(very limited)	10.29
	<pre> ~shrink-swell   (moderately limited)</pre>	0.45 	 		 		<pre> ~too clayey   (moderately limited)</pre>		<pre> ~cutbanks cave   (slightly limited)</pre>	0.29
73223:		 	 		 		 	 	 	
Coulstone	- Limited		Very limited		Limited		Very limited		Very limited	
	~large stones	0.97	~excess fines	1.00	~excess fines	10.99	~slope	1.00	~slope	1.00
	(limited)		(thickest layer)		(thickest layer)		(very limited)		(very limited)	
	~slope	0.92	~excess fines	11.00	~excess fines	10.75	~small stones	1.00	~large stones	10.97
	(limited)		(bottom layer)		(bottom layer)		(very limited)		(limited)	
			~large stones	10.50	~large stones	10.50	~area reclaim	1.00	~cutbanks cave	10.29
	!	1	(bottom layer)	!	(thickest layer)	1	(very limited)	1	(slightly limited)	1
Bender	 - Very limited	1	  Very limited	1	  Limited	I	  Very limited	1	  Very limited	1
DOMACI			~excess fines		~excess fines		~depth to bedrock		~hard bedrock <40"	11.00
	(very limited)	1	(thickest layer)	1 - 0 0	(bottom laver)		(very limited)		(very limited)	1 - 00
		11.00	~excess fines	11.00	~excess fines				~slope	11.00
	(very limited)	1	(bottom laver)	1	(thickest layer)		(very limited)		(very limited)	1
		10.71	~small stones	0.60	~small stones				~large stones	0.71
	(limited)	1	(thickest layer)	1	(thickest layer)		(very limited)	1	(limited)	1
	1	İ		i		i	1	i	1	í

## Construction Materials and Excavating

Map symbol and soil name	Source for roadf	ill	Source for sand	d	Source for grave	el	Source for topso	il	Shallow excavati 	ons
	Rating class and   limiting features	Value	   Rating class and   limiting features 	Value	Rating class and   limiting features	Value	   Rating class and   limiting features 	Value	   Rating class and   limiting features 	Value
73226:	 		 		1		 		 	
Ocie	- Very limited		Very limited		Very limited		Very limited		Very limited	
	~low strength	1.00	~excess fines	1.00	~excess fines	1.00	~too clayey	1.00	~too clayey	1.00
	(very limited)		(thickest layer)		(bottom layer)		(very limited)		(very limited)	
	~shrink-swell	0.85	~excess fines	1.00	~excess fines	11.00	~small stones	0.88	~cutbanks cave	1.00
	(limited)		(bottom layer)		(thickest layer)		(limited)		(very limited)	
	~depth to bedrock	10.25	I				~wetness	0.12	~wetness	1.00
	(slightly limited)					1	(slightly limited)	1	(very limited)	
Gatewood	 - Very limited		  Very limited		Very limited		  Very limited		  Very limited	
	~low strength	11.00	~excess fines	11.00	~excess fines	11.00	~depth to bedrock	11.00	~hard bedrock <40"	11.00
	(very limited)		(thickest layer)		(thickest layer)		(very limited)		(very limited)	
	~depth to bedrock	1.00	~excess fines	1.00	~excess fines	11.00	~too clayey	1.00	~wetness	1.00
	(very limited)		(bottom layer)		(bottom layer)		(very limited)		(very limited)	
	~shrink-swell	11.00	I		1		~small stones	0.88	~too clayey	1.00
	(very limited)	1		1			(limited)	1	(very limited)	1
73227:			 		 		 		 	
Ocie	- Very limited	j	Very limited	j	Very limited	į	Very limited	Ì	Very limited	i
	~low strength	1.00	~excess fines	1.00	~excess fines	1.00	~slope	1.00	~slope	1.00
	(very limited)		(thickest layer)		(bottom layer)		(very limited)		(very limited)	
	~slope	11.00	~excess fines	1.00	~excess fines	11.00	~too clayey	1.00	~cutbanks cave	1.00
	(very limited)		(bottom layer)		(thickest layer)		(very limited)		(very limited)	
	~shrink-swell	0.85	I				~small stones	0.88	~too clayey	1.00
	(limited)	1		1			(limited)	1	(very limited)	1
Gatewood	 - Very limited	i	  Not Rated		Very limited		  Very limited		  Very limited	
	~low strength	11.00	Not Rated	i	~excess fines		~slope		~hard bedrock <40"	11.00
	(very limited)		I	1	(bottom layer)		(very limited)		(very limited)	j
	~depth to bedrock	1.00	~excess fines	1.00	~excess fines	1.00	~too clayey	1.00	~slope	11.00
	(very limited)	1	(thickest layer)	1	(thickest layer)		(very limited)		(very limited)	
	~shrink-swell	1.00	I	1	I		~depth to bedrock	0.68	~wetness	1.00
	(very limited)		I		I		(limited)		(very limited)	
		1	1	1		1	1	1	[	1

## Construction Materials and Excavating

Map symbol and soil name	Source for roadfi	11	Source for san	d	Source for grav 	el	Source for topsoi 	1	Shallow excavati	ons
	Rating class and   limiting features	Value   	Rating class and   limiting features 	Value	Rating class and   limiting features 	Value	   Rating class and   limiting features 	Value   	Rating class and   limiting features	Value
73230:	 		 		 		 		 	
Coulstone	~slope	0.92	Very limited  ~excess fines		Limited  ~excess fines	11.00	Very limited  ~slope	1.00	Very limited   rslope	11.00
	<pre>  (limited)  ~large stones   (limited)</pre>	0.88	(thickest layer)  ~excess fines   (bottom layer)	11.00	(thickest layer)  ~excess fines   (bottom layer)	0.75	<pre>  (very limited)  ~small stones   (very limited)</pre>	11.00	<pre>  (very limited)  ~large stones   (limited)</pre>	  0.88 
		 	~large stones   (bottom layer)	0.30	~large stones   (thickest layer)	0.30	~area reclaim   (very limited)	11.00	~cutbanks cave   (slightly limited)	0.29
Bender	. 4	11.00	  Very limited  ~excess fines   (thickest layer)		  Limited  ~excess fines   (bottom layer)	0.75	  Very limited  ~depth to bedrock   (very limited)	11.00	  Very limited  ~hard bedrock <40"   (very limited)	11.00
		11.00	(thickest layer)  ~excess fines   (bottom layer)	11.00	(bottom layer)  ~excess fines   (thickest layer)		(very limited)  ~slope   (very limited)		(very limited)  ~slope   (very limited)	11.00
	<pre> ~large stones   (limited)</pre>	0.71	~small stones   (thickest layer)	0.60 	~small stones   (thickest layer)	0.60 	~small stones   (very limited)	1.00	~large stones   (limited)	0.71 
Gatewood	· -		Very limited		Very limited		Very limited		Very limited	
	<pre> ~low strength   (very limited)</pre>	11.00	~excess fines   (thickest layer)	11.00	<pre> ~excess fines   (thickest layer)</pre>		<pre> ~depth to bedrock   (very limited)</pre>		~hard bedrock <40"   (very limited)	1.00
	~depth to bedrock   (very limited)	11.00	~excess fines   (bottom layer)	11.00	~excess fines   (bottom layer)	11.00	~slope   (very limited)	11.00	~slope   (very limited)	11.00
		11.00	(10000000				~too clayey   (very limited)	1.00	~wetness   (very limited)	11.00
73231:	1 		 		 		 		 	
Wasola	Moderately limited  ~shrink-swell		Very limited  ~excess fines		Very limited  ~excess fines		Very limited  ~area reclaim		Very limited  ~wetness	11.00
	(moderately limited)	Ì	(thickest layer)	j	(thickest layer)		(very limited)	i	(very limited)	i
	<pre> ~wetness   (moderately limited)</pre>		~excess fines   (bottom layer)	11.00	~excess fines   (bottom layer)		~small stones   (limited)		~cutbanks cave   (very limited)	11.00
		 		  -			<pre>  ~wetness   (moderately limited)</pre>	0.48	(very finited)  ~too clayey   (slightly limited)	0.15

## Construction Materials and Excavating

Map symbol and soil name	Source for roadfi	.11	Source for san	d	Source for grav	el	Source for topsoi 	1	Shallow excavati	ons
	Rating class and limiting features	Value   	Rating class and   limiting features 	Value   	Rating class and   limiting features	Value	Rating class and   limiting features 	Value   	Rating class and   limiting features	Value
73235:			 				 			
Alred	<pre> ~low strength   (very limited)  ~slope   (very limited)</pre>	11.00	Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer) 	11.00	Possible source  ~excess fines   (bottom layer)  ~possible source   (thickest layer)	11.00	Very limited  ~small stones   (very limited)  ~large stones >25%   (very limited)  ~slope   (very limited)	1.00    1.00	  Very limited  ~too clayey   (very limited)  ~slope   (very limited)  ~cutbanks cave   (slightly limited)	  1.00    1.00    0.29
73236: Scholten	<pre> ~wetness   (limited)</pre>	0.82	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	11.00	  Limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	11.00	  Very limited  ~small stones   (very limited)  ~area reclaim   (very limited)  ~dense layer   (limited)	1.00    1.00	  Very limited  ~wetness   (very limited)  ~cutbanks cave   (very limited)  ~dense layer   (limited)	  1.00    1.00    1.00
Poynor	~low strength   (very limited)	1.00    0.14	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	11.00	Possible source   -excess fines   (bottom layer)   -possible source   (thickest layer)	11.00	  Very limited  ~small stones   (very limited)  ~too acid   (moderately limited)	1.00    0.36	Very limited  ~cutbanks cave   (very limited)  ~too clayey   (very limited)	11.00
73240: Jerktail	~shrink-swell   (very limited)	1.00    0.48	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	11.00	  Very limited  ~excess fines   (bottom layer)  ~excess fines   (thickest layer)	11.00	  Very limited  ~too clayey   (very limited)  ~small stones   (very limited)  ~area reclaim   (limited)	1.00    1.00	  Very limited  ~wetness   (very limited)  ~cutbanks cave   (very limited)  ~too clayey   (very limited)	  1.00    1.00    1.00

## Construction Materials and Excavating

Map symbol and soil name	Source for roadfi	11	Source for sand	i	Source for grave	el	Source for topsoi	1	Shallow excavation	ons
	Rating class and   limiting features	Value	Rating class and   limiting features	Value	Rating class and   limiting features	Value	Rating class and   limiting features	Value	Rating class and   limiting features	Value
73242: Fanchon	 	           	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	11.00	  Limited  ~excess fines   (bottom layer)  ~excess fines   (thickest layer)	11.00	    Slightly limited  ~too acid   (slightly limited) 	0.24	  Very limited  ~cutbanks cave   (very limited)  ~too clayey   (very limited)	11.00
Tonti	~wetness   (limited)	0.78	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer) 	11.00	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer) 	11.00	(very limited)  ~wetness   (limited)	1.00    0.78    0.50	  Very limited  ~dense layer <20"   (very limited)  ~wetness   (very limited)  ~cutbanks cave   (very limited)	  1.00    1.00    1.00
73243: Topazmill	  Not limited       	  -  -  -  -  -	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	11.00	  Very limited  ~excess fines   (bottom layer)  ~excess fines   (thickest layer)	    1.00    1.00	İ		  Slightly limited  ~cutbanks cave   (slightly limited) 	    0.29   
73245: Alred	~low strength   (very limited)	1.00    0.50	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	İ	  Possible source  ~excess fines   (bottom layer)  ~possible source   (thickest layer)	1.00    0.50	  Very limited  ~small stones   (very limited)  ~too acid   (slightly limited)	1.00    0.30	  Very limited  ~cutbanks cave   (very limited)  ~too clayey   (very limited)	  1.00    1.00
73246: Alred	~low strength   (very limited)	1.00    0.50	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer) 	i	  Possible source  ~excess fines   (bottom layer)  ~possible source   (thickest layer) 	1.00    0.50 	  Very limited  ~small stones   (very limited)  ~slope   (limited)  ~too acid   (slightly limited)	1.00    0.63	  Very limited  ~cutbanks cave   (very limited)  ~too clayey   (very limited)  ~slope   (limited)	  1.00    1.00    0.63

## Construction Materials and Excavating

Map symbol and soil name	Source for roadf	ill	Source for sand	i.	Source for grav	el	Source for topso	il	Shallow excavati	ons
	Rating class and   limiting features	Value   	   Rating class and   limiting features 	Value   	Rating class and   limiting features	Value   	Rating class and   limiting features	Value	   Rating class and   limiting features 	Value
73247: Alred	  -  Very limited  ~low strength   (very limited)  ~slope   (limited)  ~shrink-swell   (limited)	11.00	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer) 	11.00	  Possible source  ~excess fines   (bottom layer)  ~possible source   (thickest layer) 	11.00	  Very limited  ~slope   (very limited)  ~small stones   (very limited)  ~large stones >25%   (very limited)	11.00	  Very limited  ~slope   (very limited)  ~too clayey   (very limited)  ~cutbanks cave   (slightly limited)	    1.00    1.00    0.29
73248: Alred	  Very limited  ~low strength   (very limited)  ~shrink-swell   (limited)  ~large stones   (slightly limited)	11.00	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer) 	į	  Possible source  ~excess fines   (bottom layer)  ~possible source   (thickest layer) 	11.00	  Very limited  ~small stones   (very limited)  ~large stones >25%   (very limited)  ~slope   (limited)	11.00	  Very limited  ~too clayey   (very limited)  ~slope   (limited)  ~cutbanks cave   (slightly limited)	1.00
Bendavis	  Very limited  ~depth to bedrock   (very limited)  ~wetness   (slightly limited) 	11.00	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer) 	ĺ	  Limited  ~excess fines   (bottom layer)  ~excess fines   (thickest layer) 	0.75    0.75	  Very limited  ~depth to bedrock   (very limited)  ~small stones   (very limited)  ~slope   (limited)	11.00	  Very limited  ~hard bedrock <40"   (very limited)  ~cutbanks cave   (very limited)  ~wetness   (very limited)	11.00
73249: Alred	  Very limited  ~low strength   (very limited)  ~slope   (limited)  ~shrink-swell   (limited)	11.00	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer) 	11.00	  Possible source  ~excess fines   (bottom layer)  ~possible source   (thickest layer)	11.00	  Very limited  ~slope   (very limited)  ~small stones   (very limited)  ~large stones >25%   (very limited)	1.00    1.00	  Very limited  ~slope   (very limited)  ~too clayey   (very limited)  ~cutbanks cave   (slightly limited)	  1.00    1.00    0.29

## Construction Materials and Excavating

Map symbol and soil name	Source for roadf.	ill	Source for sand	d	Source for grave	el	Source for topsoi	1	Shallow excavati	ons
	Rating class and limiting features	Value	Rating class and   limiting features 	Value	Rating class and I limiting features	Value   	Rating class and I limiting features	Value   	Rating class and limiting features	Value
73249: (cont)	 		 		 		 	 	1	İ
Ocie	Very limited  ~low strength   (very limited)  ~slope   (limited)  ~shrink-swell	1.00    0.92	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	11.00	Very limited  ~excess fines   (bottom layer)  ~excess fines   (thickest layer)	1.00    1.00	(very limited)  ~too clayey   (very limited)	11.00	Very limited  ~too clayey   (very limited)  ~slope   (very limited)  ~cutbanks cave	  1.00    1.00
	(limited)						(limited)		(very limited)	
	  Very limited  ~depth to bedrock   (very limited)  ~slope   (very limited)  ~wetness   (slightly limited)	11.00	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer) 	11.00	  Limited  ~excess fines   (bottom layer)  ~excess fines   (thickest layer) 	0.99    0.99	(very limited)	11.00		  1.00    1.00    1.00
73295: Taterhill	  Not limited       	İ	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	11.00	  Limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	11.00	(very limited)		  Very limited  ~cutbanks cave   (very limited) 	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
73296:	 	1	 	1	 		! 	i i	 	
Yelton	Limited  ~wetness   (limited)	0.82	Very limited  ~excess fines   (thickest layer)		Very limited  ~excess fines   (bottom layer)		Very limited  ~dense layer <20"   (very limited)	11.00	Very limited  ~dense layer <20"   (very limited)	11.00
	~shrink-swell   (slightly limited)   		~excess fines   (bottom layer) 	11.00	~excess fines   (thickest layer) 	i	(limited)	  0.50	~wetness   (very limited)  ~cutbanks cave   (slightly limited)	11.00
Topazmill	  Not limited   		  Very limited  ~excess fines   (thickest layer)  ~excess fines	11.00	  Very limited  ~excess fines   (bottom layer)  ~excess fines	  1.00    1.00	  Not limited     	[       	  Slightly limited  ~cutbanks cave   (slightly limited)	10.29

## Construction Materials and Excavating

Map symbol and soil name	Source for roadfi	11	Source for sand	d	Source for grav	el	Source for topsoi	1	Shallow excavati	ons
	Rating class and   limiting features	Value	   Rating class and   limiting features 	Value	Rating class and limiting features	Value	   Rating class and   limiting features 	Value	Rating class and   limiting features	Value
73296: (cont) Lily		11.00	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	11.00	  Very limited  ~excess fines   (bottom layer)  ~excess fines   (thickest layer)	11.00	  Very limited  ~depth to bedrock   (very limited)  ~too acid   (slightly limited)  ~too clayey   (slightly limited)	11.00	  Very limited  ~hard bedrock <40"   (very limited)  ~cutbanks cave   (very limited) 	    1.00    1.00
73297: Poynor	<pre> ~low strength   (very limited)  ~slope   (limited)</pre>	1.00    0.92	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	i	Possible source   ~excess fines   (bottom layer)   ~possible source   (thickest layer)	1.00    0.50	  Very limited  ~slope   (very limited)  ~small stones   (very limited)  ~too acid   (moderately limited)	1.00    1.00    0.36	  Very limited  ~slope   (very limited)  ~cutbanks cave   (very limited)  ~too clayey   (limited)	  1.00    1.00    0.76
Scholten	<pre>  ~slope   (limited)   ~wetness   (moderately limited)</pre>	0.92    0.48    0.05	  Not Rated  Not Rated 	11.00	Limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)  ~small stones   (thickest layer)	1.00    0.62    0.10	  Very limited  ~slope   (very limited)  ~small stones   (very limited)  ~area reclaim   (very limited)	1.00    1.00    1.00	  Very limited  ~slope   (very limited)  ~wetness   (very limited)  ~cutbanks cave   (very limited)	  1.00    1.00    1.00
73298: Tonti	(moderately limited)	0.48	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer) 	i	  Limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	1.00    0.75	  Very limited  ~small stones   (very limited)  ~dense layer <20"   (very limited)  ~area reclaim   (very limited)	1.00    1.00    1.00	  Very limited  ~dense layer <20"   (very limited)  ~wetness   (very limited)  ~cutbanks cave   (very limited)	11.00

## Construction Materials and Excavating

Map symbol and soil name	Source for roadfi	11	Source for sand	d	Source for grave	el	Source for topsoi 	1	Shallow excavati	ons
	Rating class and   limiting features	Value   	Rating class and   limiting features	Value	Rating class and   limiting features	Value	Rating class and   limiting features	Value   	Rating class and   limiting features	Value
73298: (cont) Hogcreek	~depth to bedrock   (very limited)	11.00	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	İ	  Limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	11.00	    Not Rated  Not Rated    Not Rated    Not Rated	 	  Very limited  ~dense layer <20"   (very limited)  ~hard bedrock <40"   (very limited)  ~wetness   (very limited)	    1.00    1.00    1.00
73299: Plato	~low strength   (very limited)  ~wetness   (limited)	11.00	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	11.00	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	11.00	  Very limited  ~dense layer <20"   (very limited)  ~area reclaim   (limited)  ~wetness   (limited)	1.00    0.92	  Very limited  ~dense layer <20"   (very limited)  ~wetness   (very limited)  ~cutbanks cave   (very limited)	    1.00    1.00 
Jerktail	~shrink-swell   (very limited)	1.00    0.48	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer) 	11.00	  Very limited  ~excess fines   (bottom layer)  ~excess fines   (thickest layer) 	11.00	  Very limited  ~too clayey   (very limited)  ~small stones   (very limited)  ~area reclaim   (limited)	1.00    1.00	  Very limited  ~wetness   (very limited)  ~cutbanks cave   (very limited)  ~too clayey   (very limited)	  1.00    1.00    1.00
73300: Macedonia	  Moderately limited  ~shrink-swell   (moderately limited)   	0.45	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer) 	11.00	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer) 	1.00    1.00 	  Very limited  ~too clayey   (very limited)  ~small stones   (very limited)  ~too acid   (moderately limited)	1.00    1.00    0.54	  Very limited  ~too clayey   (very limited)  ~cutbanks cave   (slightly limited) 	  1.00    0.29 

## Construction Materials and Excavating

Map symbol and soil name	Source for roadfil	11	Source for sand	d	Source for grave	el	Source for topsoi 	1	Shallow excavation	ons
	Rating class and   limiting features	Value   	Rating class and   limiting features	Value	Rating class and limiting features	Value	   Rating class and   limiting features 	Value   	Rating class and   limiting features	Value
73301: Tick	~low strength   (very limited)	1.00	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer) 	11.00	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer) 	11.00	(very limited)  ~too acid   (moderately limited)	11.00	  Very limited  ~too clayey   (very limited)  ~cutbanks cave   (slightly limited) 	    1.00    0.29
73302: Kenaga	(moderately limited)	0.48      0.45	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	11.00	  Limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	1.00	  Very limited  ~small stones   (very limited)  ~area reclaim   (very limited)  ~too clayey   (limited)	11.00	  Very limited  ~wetness   (very limited)  ~too clayey   (limited)  ~cutbanks cave   (slightly limited)	  1.00    0.76    0.29
-	(moderately limited)	0.48	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	11.00	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	11.00	(limited)	1.00    0.94    0.48	  Very limited  ~wetness   (very limited)  ~too clayey   (limited)  ~cutbanks cave   (slightly limited)	  1.00    0.76    0.29
	  Moderately limited  ~shrink-swell   (moderately limited)     	0.45	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer) 	11.00	  Limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer) 	1.00    0.99 	(very limited)	11.00	  Very limited  ~cutbanks cave   (very limited)  ~too clayey   (very limited) 	  1.00    1.00

## Construction Materials and Excavating

soil name	Source for roadfil	LT	Source for sand	d	Source for grave	el	Source for topso.	il	Shallow excavati	.ons
	   Rating class and   limiting features 	Value 	   Rating class and   limiting features 	Value	Rating class and   limiting features	Value	   Rating class and   limiting features 	Value	Rating class and   limiting features	Value
73304:	 	   	 	İ	[ [		 		[ [	
_	Moderately limited  ~wetness		Very limited  ~excess fines		Very limited  ~excess fines		Very limited  ~small stones		Very limited  ~wetness	11.00
	(moderately limited)		(thickest layer)	İ	(thickest layer)		(very limited)	İ	(very limited)	İ
	<pre> ~shrink-swell   (moderately limited)</pre>		~excess fines   (bottom layer)	11.00	~excess fines   (bottom layer)		~too clayey   (limited)		~too clayey   (limited)	10.76
	(moderatery rimited)	i I	(Doccom rayer)		(Boccom layer)		~slope		~slope	0.63
						1	(limited)	1	(limited)	1
Egyptgrove	  Moderately limited	 	  Very limited		  Limited		  Very limited		  Very limited	
			~excess fines	1.00	~excess fines		~too clayey		~cutbanks cave	11.00
	(moderately limited)		(thickest layer)  ~excess fines	11 00	(thickest layer)  ~excess fines		(very limited)  ~small stones		(very limited)  ~too clayey	11.00
	I 	l 	(bottom layer)	11.00	(bottom layer)		(very limited)		(very limited)	11.00
				i			~area reclaim		~slope	0.63
				1		I	(very limited)	Į.	(limited)	I
Tonti	  Moderately limited	 	  Very limited		  Limited		  Very limited		  Very limited	
	•		~excess fines	1.00	~excess fines		~small stones		~dense layer <20"	11.00
	(moderately limited)		(thickest layer)		(thickest layer)		(very limited)		(very limited)	
	~shrink-swell   (slightly limited)		~excess fines   (bottom layer)	11.00	~excess fines   (bottom layer)		<pre> ~dense layer &lt;20"   (very limited)</pre>	11.00	~wetness   (very limited)	1.00
	(Siigheiy iimieed) 	i I		i	(Boccom rayer)		~area reclaim	11.00	~cutbanks cave	1.00
				1		I	(very limited)	1	(very limited)	
73305:	 	 	 		 		 		 	
322 3	Moderately limited		Very limited		Limited		Very limited		Very limited	
	•		~excess fines	1.00	~excess fines		~too clayey		~cutbanks cave	1.00
	(moderately limited)		(thickest layer)  ~excess fines	1 1 00	(thickest layer)  ~excess fines		(very limited)  ~small stones		(very limited)  ~too clayey	11.00
	I 	! 	(bottom layer)	1 1 . 0 0	(bottom layer)		(very limited)		(very limited)	1 1 . 0 0
				i			~area reclaim	11.00		i
	I	l		1			(very limited)	1		i

## Construction Materials and Excavating

Map symbol and soil name	Source for roadfi	11	Source for sand	d	Source for grave	el	Source for topsoi 	1	Shallow excavati	ons
	Rating class and   limiting features	Value   	   Rating class and   limiting features 	Value	Rating class and   limiting features	Value	   Rating class and   limiting features 	Value	Rating class and   limiting features	Value
73306: Gressy	(slightly limited)  ~shrink-swell	0.22	    Very limited  ~excess fines   (thickest layer)  ~excess fines	11.00	    Very limited  ~excess fines   (thickest layer)  ~excess fines	11.00		0.12	    Very limited  ~cutbanks cave   (very limited)  ~too clayey	11.00
Gatewood	~low strength   (very limited)	1.00	(bottom layer)    Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	11.00	(bottom layer)    Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer) 	1.00	(slightly limited)    Very limited  ~depth to bedrock   (very limited)  ~too clayey   (very limited)  ~small stones   (limited)	1.00    1.00    0.88	<pre>(very limited)    Very limited  ~hard bedrock &lt;40"   (very limited)  ~wetness   (very limited)  ~too clayey   (very limited)</pre>	    1.00    1.00 
73307: Gressy		0.22	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	11.00	  Very limited  ~excess fines   (bottom layer)  ~excess fines   (thickest layer)	11.00	(moderately limited)	0.32	  Very limited  ~cutbanks cave   (very limited)  ~too clayey   (limited)	11.00
Viraton	  Moderately limited  ~wetness   (moderately limited)  ~shrink-swell   (slightly limited) 	0.48	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	İ	  Possible source  ~excess fines   (bottom layer)  ~possible source   (thickest layer)	1.00    0.25	(very limited)  ~dense layer <20"   (very limited)	1.00    1.00    0.48	  Very limited  ~dense layer <20"   (very limited)  ~wetness   (very limited)  ~cutbanks cave   (very limited)	  1.00    1.00    1.00
73308: Grandgulf	 	11.00	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	11.00	  Very limited  ~excess fines   (bottom layer)  ~excess fines   (thickest layer)	    1.00    1.00	İ	 	  Very limited  ~ponded (wetness)   (very limited)  ~cutbanks cave   (slightly limited)	  1.00    0.29

## Construction Materials and Excavating

Map symbol and soil name	Source for roadfi	11	Source for san	d	Source for grave	el	Source for topsoi	1	Shallow excavati	ons
	Rating class and   limiting features	Value	Rating class and   limiting features	Value	Rating class and   limiting features	Value	Rating class and   limiting features	Value	Rating class and   limiting features	Value   
73309:	 		 	 	 	_   	[		[ [	   
Clarksville	- Moderately limited  ~slope   (moderately limited)	0.50 	Very limited  ~excess fines   (thickest layer)	11.00	Possible source  ~excess fines   (bottom layer)	11.00	(very limited)	1.00 	  Very limited  ~slope   (very limited)	11.00
	 	     	~excess fines   (bottom layer)   	1.00     	~possible source   (thickest layer)   	i	(very limited)	  0.30	<pre> ~cutbanks cave   (very limited)  ~too clayey   (limited)</pre>	1.00    0.79
Bendavis		11.00	  Very limited  ~excess fines   (thickest layer)		  Limited  ~excess fines   (bottom layer)	0.75	  Very limited  ~slope   (very limited)	11.00	  Very limited  ~hard bedrock <40"   (very limited)	11.00
	~slope   (very limited)		~excess fines   (bottom layer)	11.00	(bottom layer)  ~excess fines   (thickest layer)	0.75		11.00	~slope   (very limited)	11.00
	(slightly limited)	i I	 	i I	 	į į	(limited)	İ	(very limited)	İ
73310:	İ	İ	İ	İ	İ	İ	İ	ĺ	Ì	İ
Scholten		0.82	Very limited  ~excess fines   (thickest layer)	11.00	Limited  ~excess fines   (thickest layer)	11.00	Very limited  ~small stones   (very limited)	11.00	Very limited  ~wetness   (very limited)	11.00
		0.04	rexcess fines   (bottom layer)		rexcess fines   (bottom layer)	0.62	~area reclaim   (very limited)	11.00	~cutbanks cave   (very limited)	11.00
			 		 		<pre> ~dense layer   (limited)</pre>	11.00	~dense layer   (limited)	11.00
Bendavis	· <u>-</u>		  Very limited  ~excess fines		  Very limited  ~excess fines		Very limited  ~small stones		  Very limited  ~hard bedrock <40"	1
	~depth to bedrock   (very limited)	11.00	~excess lines   (thickest layer)	11.00	(bottom layer)		(very limited)		(very limited)	11.00
	~wetness   (slightly limited)		~excess fines   (bottom layer)	1.00 	~excess fines   (thickest layer)		~depth to bedrock   (limited)		~cutbanks cave   (very limited)	1.00 
		 	] 	 	] 	İ		0.30	~wetness   (very limited)	11.00

## Construction Materials and Excavating

Map symbol and soil name	Source for roadf	ill	Source for sand	d	Source for grav	el	Source for topsoi	1	Shallow excavati	ons
	Rating class and   limiting features	Value	   Rating class and   limiting features 	Value	Rating class and   limiting features	Value	Rating class and   limiting features	Value	Rating class and   limiting features	Value
73310: (cont) Poynor	  - Very limited  ~low strength   (very limited)  ~shrink-swell   (slightly limited)	11.00	 	i	  Possible source  ~excess fines   (bottom layer)  ~possible source   (thickest layer) 	1.00    0.50	(moderately limited)	1.00    0.36    0.32	 	    1.00    1.00
73311: Scholten	  - Limited  ~wetness   (limited)  ~shrink-swell   (slightly limited)	0.82	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer) 	i	  Limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer) 	1.00    0.62	(very limited)	11.00	  Very limited  ~wetness   (very limited)  ~cutbanks cave   (very limited)  ~dense layer   (limited)	  1.00    1.00 
Bendavis	- Very limited  -depth to bedrock   (very limited)  -wetness   (slightly limited)	11.00	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer) 	İ	Limited  ~excess fines   (bottom layer)  ~excess fines   (thickest layer)	0.75    0.75 	  Very limited  ~depth to bedrock   (very limited)  ~small stones   (very limited)  ~slope   (limited)	11.00	Very limited  ~hard bedrock <40"   (very limited)  ~cutbanks cave   (very limited)  ~wetness   (very limited)	11.00
Poynor	  Very limited  ~low strength   (very limited)  ~shrink-swell   (slightly limited)	11.00	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer) 	i	  Very limited  ~excess fines   (bottom layer)  ~excess fines   (thickest layer) 	11.00	<pre>(very limited)  ~slope   (limited)</pre>	1.00    0.63 	  Very limited  ~cutbanks cave   (very limited)  ~too clayey   (very limited)  ~slope   (limited)	  1.00    1.00    0.63

## Construction Materials and Excavating

Map symbol and soil name	Source for roadfi	11	Source for sand	d	Source for grave	el	Source for topsoi 	1	Shallow excavati	ons
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and   limiting features	Value   	Rating class and   limiting features	Value
73312: Alred	~low strength   (very limited)	11.00	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	i	  Possible source  ~excess fines   (bottom layer)  ~possible source   (thickest layer)	1.00    0.50	(very limited)  ~too acid   (moderately limited)	1.00    0.48	  Very limited  ~cutbanks cave   (very limited)  ~too clayey   (very limited)	1.00
Bendavis	~depth to bedrock   (very limited)	1.00    0.12	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer) 	11.00	  Very limited  ~excess fines   (bottom layer)  ~excess fines   (thickest layer) 	11.00	  Very limited  ~small stones   (very limited)  ~depth to bedrock   (limited)  ~too acid   (slightly limited)	1.00    0.93    0.30	  Very limited  ~hard bedrock <40"   (very limited)  ~cutbanks cave   (very limited)  ~wetness   (very limited)	  1.00    1.00    1.00
73313: Fanchon	  Not limited     	 	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	11.00	  Limited  ~excess fines   (bottom layer)  ~excess fines   (thickest layer)	11.00	  Slightly limited  ~too acid   (slightly limited)   	0.24	  Very limited  ~cutbanks cave   (very limited)  ~too clayey   (very limited)	  1.00    1.00
Tonti	(moderately limited)	0.48	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer) 	11.00	Possible source   Possible s	0.75	  Very limited  ~small stones   (very limited)  -dense layer <20"   (very limited)  -area reclaim   (very limited)	11.00	  Very limited  ~dense layer <20"   (very limited)  ~wetness   (very limited)  ~cutbanks cave   (very limited)	  1.00    1.00    1.00

## Construction Materials and Excavating

Map symbol and soil name	Source for roadf	ill	Source for san	d	Source for grav	el	Source for topso	il	Shallow excavation	ons
	Rating class and limiting features	Value	Rating class and   limiting features	Value	Rating class and limiting features	Value   	Rating class and limiting features	Value	   Rating class and   limiting features 	Value
73314:			 			 	 		 	 
Tanglenook	- Very limited  ~low strength   (very limited)  ~wetness	11.00	Not Rated  Not Rated      ~excess fines	      1.00	Very limited  ~excess fines   (bottom layer)  ~excess fines	11.00	Very limited  ~wetness   (very limited)  ~too clayey	11.00	Very limited  ~wetness   (very limited)  ~too clayey	  1.00    0.60
	<pre>(very limited)  ~shrink-swell   (very limited)</pre>	11.00	(thickest layer)   		(thickest layer)   	       	(very limited)	İ	(moderately limited)  ~cutbanks cave   (slightly limited) 	0.29
73315: Deible	  - Very limited  ~wetness		  Very limited  ~excess fines	1	  Very limited  ~excess fines		  Very limited  ~wetness		  Very limited  ~wetness	1
	<pre>(very limited)  ~shrink-swell   (very limited)  </pre>	11.00	(thickest layer)  ~excess fines   (bottom layer) 	11.00	(bottom layer)  ~excess fines   (thickest layer) 	11.00	(very limited)  ~too clayey   (very limited)  ~too acid   (slightly limited)	1.00    0.30	(very limited)  ~too clayey   (moderately limited)  ~cutbanks cave   (slightly limited)	  0.47     0.29
73316:		İ	 	İ		İ	, , , , , , , , , , , , , , , , , , ,	į į	, , , , , , , , , , , , , , , , , , ,	i i
Clarksville	- Limited  ~slope   (limited)	0.75	Very limited  ~excess fines   (thickest layer)	11.00	Possible source  ~excess fines   (bottom layer)	1.00 	Very limited  ~slope   (very limited)	11.00	Very limited  ~slope   (very limited)	11.00
			~excess fines   (bottom layer) 	11.00	<pre> ~possible source   (thickest layer)  </pre>		<pre> ~small stones   (very limited)  ~too acid   (slightly limited)</pre>	i	<pre> ~cutbanks cave   (very limited)  ~too clayey   (limited)</pre>	1.00    0.79
							i		İ	
Tick	- Very limited  ~low strength   (very limited)	11.00	Very limited  ~excess fines   (thickest layer)		Very limited  ~excess fines   (thickest layer)	11.00	Very limited  ~slope   (very limited)	11.00	Very limited  ~slope   (very limited)	11.00
	~slope		~excess fines	11.00	~excess fines	11.00	~too clayey	11.00	~too clayey	11.00
	(limited)  ~shrink-swell   (slightly limited)	10.30	(bottom layer)   	   	(bottom layer)   	İ	<pre>  (very limited)  ~too acid   (moderately limited</pre>	0.42	(very limited)  ~cutbanks cave   (slightly limited)	10.29

## Construction Materials and Excavating

Map symbol and soil name	Source for roadfi	11	Source for sand		Source for gravel		Source for topsoil		Shallow excavations	
	Rating class and limiting features	Value   	Rating class and   limiting features	Value   	Rating class and   limiting features	Value	Rating class and   limiting features 	Value   	Rating class and   limiting features	Value
73316: (cont)	 		 	   	 		 	 	 	
Mano	Very limited  ~low strength   (very limited)  ~slope   (limited)  ~shrink-swell   (moderately limited)	1.00    0.92    0.50	Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer) 	11.00	Possible source  ~excess fines   (bottom layer)  ~possible source   (thickest layer) 	11.00	(very limited)  ~small stones   (very limited)	1.00    1.00    0.48	Very limited  ~slope   (very limited)  ~cutbanks cave   (very limited)  ~too clayey   (very limited)	11.00
74626:			 		 			 	 	
Tanglenook	Very limited  ~low strength   (very limited)  ~wetness   (very limited)  ~shrink-swell   (very limited)	11.00	Not Rated  Not Rated    ~excess fines   (thickest layer) 		Very limited  ~excess fines   (bottom layer)  ~excess fines   (thickest layer) 	11.00	Very limited  ~wetness   (very limited)  ~too clayey   (very limited) 	11.00	Very limited  ~wetness   (very limited)  ~too clayey   (limited)  ~cutbanks cave   (slightly limited)	  1.00    0.68    0.29
74627:		į		į		į	, 	į		į
Hartville	~low strength   (very limited)  ~shrink-swell   (very limited)	1.00    1.00    0.48	Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer) 	11.00	Very limited  ~excess fines   (bottom layer)  ~excess fines   (thickest layer) 	11.00	Very limited  ~too clayey   (very limited)  ~wetness   (moderately limited) 	11.00	Very limited  ~wetness   (very limited)  ~too clayey   (moderately limited)  ~cutbanks cave   (slightly limited)	  1.00    0.33    0.29
74648: Aslinger	   Moderately limited  ~wetness   (moderately limited)   	0.48	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	11.00	  Limited  ~excess fines   (bottom layer)  ~excess fines   (thickest layer)	10.99	(very limited)	11.00	  Very limited  ~dense layer <20"   (very limited)  ~wetness   (very limited)  ~cutbanks cave   (very limited)	  1.00    1.00 

## Construction Materials and Excavating

Map symbol and soil name	Source for roadfill		Source for sand		Source for gravel		Source for topsoil		Shallow excavations	
	Rating class and   limiting features	Value	   Rating class and   limiting features 	Value	Rating class and   limiting features	Value	Rating class and   limiting features	Value	Rating class and   limiting features	Value
74658: Zanoni	  - Not limited       		 	11.00	  Possible source  ~excess fines   (thickest layer)  ~possible source   (bottom layer)	11.00	  Very limited  ~area reclaim   (very limited)  ~too sandy   (limited)		  Very limited  ~cutbanks cave   (very limited) 	1 1.00
74677: Deible	  - Very limited  ~wetness   (very limited)  ~shrink-swell   (very limited)	11.00	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer) 	11.00	  Very limited  ~excess fines   (bottom layer)  ~excess fines   (thickest layer)	11.00	  Very limited  ~wetness   (very limited)  ~too clayey   (very limited) 	11.00	  Very limited  ~wetness   (very limited)  ~too clayey   (moderately limited)  ~cutbanks cave   (slightly limited)	1.00
74679: Higdon	  - Very limited  ~low strength   (very limited)  ~wetness   (limited)  ~shrink-swell   (slightly limited)	11.00	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer) 	i	  Very limited  ~excess fines   (bottom layer)  ~excess fines   (thickest layer)	11.00	  Limited  ~wetness   (limited)  ~too clayey   (slightly limited) 	0.86	  Very limited  ~wetness   (very limited)  ~cutbanks cave   (slightly limited) 	  1.00    0.29
74681: Lostpond	  - Limited  ~wetness   (limited)   		  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer) 	11.00	  Very limited  ~excess fines   (bottom layer)  ~excess fines   (thickest layer) 	1.00    1.00	  Very limited  ~small stones   (very limited)  ~wetness   (limited)  ~area reclaim   (limited)	1.00    0.96	  Very limited  ~wetness   (very limited)  ~cutbanks cave   (very limited) 	1.00

## Construction Materials and Excavating

Map symbol and soil name	Source for roadfill		Source for sand		Source for gravel		Source for topsoil		Shallow excavations	
	Rating class and limiting features	Value   	Rating class and limiting features	Value   	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and   limiting features	Value
74690: Moniteau	<pre> ~low strength   (very limited)  ~wetness   (very limited)</pre>	1.00    1.00    0.37	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	11.00	  Very limited  ~excess fines   (bottom layer)  ~excess fines   (thickest layer)	11.00	  Very limited  ~wetness   (very limited)  ~too clayey   (moderately limited)	10.33	  Very limited  ~wetness   (very limited)  ~cutbanks cave   (slightly limited)	11.00
75381: Bearthicket	. 4	11.00	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	1.00 	  Very limited  ~excess fines   (bottom layer)  ~excess fines   (thickest layer)	11.00	İ		  Slightly limited  ~cutbanks cave   (slightly limited) 	10.29
75390: Razort	 	 	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	11.00	  Limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	11.00	  Very limited  ~area reclaim   (very limited)  ~small stones   (moderately limited)	10.50	  Very limited  ~cutbanks cave   (very limited) 	11.00
75408: Secesh	      Not limited 	 	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer) 	11.00	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer) 	11.00	  Very limited  ~area reclaim   (very limited)  ~small stones   (very limited)  ~too clayey   (slightly limited)	i	  Very limited  ~cutbanks cave   (very limited)  ~too clayey   (slightly limited) 	11.00

## Construction Materials and Excavating

Map symbol and soil name	Source for roadfill		Source for sand		Source for gravel		Source for topsoil		Shallow excavations	
	Rating class and limiting features	Value	   Rating class and   limiting features 	Value	Rating class and limiting features	Value	Rating class and   limiting features	Value	Rating class and   limiting features	Value
75417: Relfe	 		  Possible source  ~excess fines   (thickest layer)  ~possible source   (bottom layer)	11.00	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	11.00	  Very limited  ~too sandy   (very limited)  ~small stones   (very limited)  ~area reclaim   (very limited)	11.00	(very limited)  ~flooding   (moderately limited)	    1.00    0.60
Sandbur	  Not limited       	i i	  Limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	İ	  Limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	1.00    0.94	  Very limited  ~area reclaim   (very limited)  ~too sandy   (limited)	11.00	(very limited)	11.00
75418: Tilk	  Slightly limited  ~large stones   (slightly limited)   		  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer) 	11.00	  Very limited  ~excess fines   (bottom layer)  ~excess fines   (thickest layer) 	11.00	  Very limited  ~small stones   (very limited)  ~area reclaim   (very limited)  ~too sandy   (limited)	11.00	(very limited)  ~large stones   (slightly limited)	1.00
75420: Secesh	  Not limited         	           	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer) 	11.00	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	11.00	  Very limited  ~small stones   (very limited)  ~area reclaim   (limited)  ~too clayey   (slightly limited)	11.00	(very limited)  ~flooding   (moderately limited)	  1.00    0.60

## Construction Materials and Excavating

Map symbol and soil name	Source for roadfill		Source for sand   		Source for gravel		Source for topsoil		Shallow excavations	
	Rating class and limiting features	Value   	Rating class and   limiting features	Value   	Rating class and   limiting features	Value	Rating class and   limiting features	Value   	Rating class and I limiting features	Value
75420: (cont) Tilk	  Not limited           	İ	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	11.00	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	11.00	<pre>(very limited)  ~area reclaim   (very limited)</pre>	1.00    1.00	<pre>(very limited)  ~flooding   (moderately limited)</pre>	    1.00    0.60
75423: Cedargap	 	 	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	11.00	  Possible source  ~possible source   (thickest layer)  ~possible source   (bottom layer)	0.50    0.46	(very limited)  ~area reclaim   (very limited)	1.00    1.00    0.52	(very limited)  ~flooding   (moderately limited)	    1.00    0.60
75432: Batcave	•		  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	11.00	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	11.00	(very limited)  ~small stones   (very limited)	11.00	(very limited)  ~cutbanks cave   (very limited)	   1.00   1.00   10.60
Farewell	~wetness   (very limited)	1.00    0.39	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer) 	11.00	  Very limited  ~excess fines   (bottom layer)  ~excess fines   (thickest layer) 	1.00    1.00 	(very limited)	11.00	(very limited)  ~cutbanks cave   (very limited)	  1.00    1.00    0.60

## Construction Materials and Excavating

Map symbol and soil name	Source for roadfill		Source for sand		Source for gravel		Source for topsoil		Shallow excavations	
	Rating class and limiting features	Value	   Rating class and   limiting features 	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value   
75433: Racket	  Slightly limited  ~shrink-swell   (slightly limited) 		    Not Rated  Not Rated    ~excess fines   (thickest layer)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	1.00 	  Very limited  ~area reclaim   (very limited)  ~too clayey   (slightly limited)	1.00 	<pre>(very limited)  ~flooding   (moderately limited)</pre>	    1.00    0.60    0.24
99001: Water	 		      Not rated     		    Not rated     	         	 	         	(Sirghtry limited)	
99002: Borrow areas	    Not rated       		    Not rated       	 	    Not rated       	         	    Not rated       		    Not rated       	